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THE MIGRANT

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DEVOTED TO TENNESSEE BIRDS

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Annual dues are $10.00 for an Active membership. Other categories of membership are: Student - $5.00; Family - $12.00; Library - $15.00; Sustaining - $20.00; Life - $200.00. Chapters may collect additional fees to cover local expenses. Dues, contributions, and bequests are deductible from Federal income and estate taxes. Back issues of *The Migrant* may be purchased from the Curator. Please correspond with the Treasurer for subscriptions, memberships, and changes of address.

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The Migrant, 64 (2): 25-31, 1993.

THE 1992 FORAY: HAYWOOD COUNTY, TENNESSEE

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Tennessee Conservation League
300 Orlando Ave., Nashville, TN 37209
and
PAUL B. HAMEL
U.S.D.A. Forest Service
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The 1992 Foray took place 23-24 May 1992 in Haywood County, Tennessee. The Foray objectives were to document bird species richness and relative abundance of birds in Haywood County and to demonstrate bird census techniques for interested observers. Poor weather conditions for bird observation prevailed during the afternoon of 23 May and continued through the remainder of the Foray weekend. Despite the weather, many noteworthy observations were made during the Foray and the demonstrations were conducted. Most results were qualitative rather than quantitative, however. Our objectives in this paper are to provide the list of birds recorded during 23-24 May 1992 in Haywood County, Tennessee, and to comment on certain of the species.

DESCRIPTION OF STUDY AREA

Haywood County, Tennessee, lies in the Gulf Coastal Plain Physiographic Province in west Tennessee. The dominant landscape features of the county were formed by rivers and erosion of loess soils (Wilkerson 1973). The province is characterized by low elevation, rolling topography and swamp rivers with broad and flat floodplains. Spring and summer are characterized by a warm, humid climate and short duration thunderstorms.

Haywood County encompasses approximately 1,400 km^2 (540 mi^2). Row crop agriculture, primarily soybeans and cotton, occupied approximately 650 km^2 (46% of the county) at the time of this survey. Forest lands occupied approximately 285 km^2 (20% of the county). The remaining lands were small farms not in row crops and rural communities and public lands, such as the Hatchie National Wildlife Refuge (NWR), which occupied approximately 4,500 ha. Human population in 1990 was approximately 20,000.

Two major river systems influence the county, the Hatchie River and the Forked Deer River. The main stem of the Hatchie River is natural and free flowing, whereas

the Forked Deer River has been channelized, severely altering natural hydrology. Typical forest communities are sweetgum-mixed bottomland hardwoods in the Hatchie River floodplain and red maple-mixed bottomland hardwoods in the Forked Deer River floodplain (Patterson and DeSelm 1989).

METHODS

Twelve observers made 13 trips throughout Haywood County during the 23-24 May 1992 Foray and accumulated 70 party-hours. Ten of the trips were survey trips during which observers recorded total numbers of birds observed. Three trips were miniroutes, roadside counts of 15 three-minute stops each. Presence of species was recorded at each stop (Nicholson in press). Miniroute I was located in the Forked Deer watershed; five stops were in wetland habitats and the remainder were in mostly agricultural lands of both floodplain and upland. Miniroute II was in the Hatchie watershed, where all stops occurred in a landscape mixture of upland forest habitats and agricultural lands. All stops for Miniroute III were in mature bottomland hardwood forest in the Hatchie NWR on Powell Road, approximately the same distance from the Hatchie River.

Breeding Bird Census spot-mapping and point count techniques were demonstrated by Hamel for Foray participants. The results of these demonstrations were included in the total of birds observed.

Weather during the Foray deteriorated dramatically. During the first afternoon of the Foray, temperatures dropped, while wind and rain increased. Conditions were not appropriate for accurate bird censusing on the second day of the Foray. As a result, nocturnal counts and other roadside counts could not be conducted.

RESULTS AND DISCUSSION

Ninety-six species were recorded in Haywood County from 23-24 May 1992, 66 of these occurring in miniroutes (Appendix I). Common Grackle, Indigo Bunting, American Crow, Red-winged Blackbird, Northern Cardinal, Common Yellowthroat, Acadian Flycatcher, Eastern Meadowlark, Mourning Dove, Carolina Wren, and Prothonotary Warbler were the 11 most abundant species.

Twenty-one species occurred on at least one stop during each of three miniroutes. Indigo Bunting was the most widely distributed of these, and occurred on at least five stops per miniroute. Highest species richness on miniroutes occurred in the Forked River watershed.

Notable differences existed for relative abundance and species composition among miniroutes. For example, the most frequently encountered species in the Forked Deer watershed were Mourning Dove and Indigo Bunting, while in the uplands of the Hatchie watershed, the most frequent species were Common Grackle and Red-winged Blackbird. In the Hatchie NWR, the most frequently encountered species were Tufted Titmouse, Blue-gray Gnatcatcher, Prothonotary Warbler, and Acadian Flycatcher (see Appendix I).

The relatively early date of the 1992 Foray resulted in observations of at least four migratory species: Cedar Waxwing, Magnolia Warbler, Prairie Warbler, and White-crowned Sparrow. Although Cedar Waxwing may nest rarely in west Tennessee (see Nicholson in press), observations during the Foray were of large, highly mobile flocks that we believe were migrants. Prairie Warblers may nest rarely in Haywood County (Coffey 1976); however, the Foray observation of a single bird in mature

bottomland hardwood forest makes this individual a probable migrant. An observation on 24 May of a White-crowned Sparrow, a winter resident in west Tennessee, is apparently the latest spring record in west Tennessee (Martha G. Waldron, pers. comm.).

Eight species were notable for either an unexpected relative abundance or nest season records:

Blue-winged Teal. A male and female were observed on 23 May at O'Neal Lake, Hatchie NWR; the female had a broken right wing (Ron Hoff, pers. comm.). This species has nested in adjacent Lauderdale County (Waldron 1989).

Turkey Vulture. The relatively high number of Turkey Vultures (53 individuals) is unusual and may reflect multiple counting of some individuals.

American Coot. Three individuals were observed on 23 May at O'Neal Lake, Hatchie NWR. Individuals have occurred during every month of the year across the state and nesting pairs are scattered across west Tennessee (see Nicholson in press). However, no nesting evidence was confirmed. Ford and Jeff R. Wilson observed one American Coot at O'Neal Lake 4 June 1988.

Yellow-billed Cuckoo. Seven Yellow-billed Cuckoos were noted, an extremely low number. In contrast, 157 individuals were observed during the Lauderdale County Foray on about the same dates in May 1975 (Coffey 1976). Because cuckoos are known to congregate in areas of high densities of hairy caterpillars, it may be that their food supply in Haywood County was low at the time of the Foray (Robinson 1990). The low number could be caused by poor weather conditions, unfavorable migration timing or location for cuckoos, a general population decrease range-wide or a combination of these and other factors.

Tree Swallow. Nicholson and Pitts (1982) summarized the nesting status of Tree Swallows in west Tennessee as occurring in counties adjoining the Mississippi River or Tennessee River. Among the first possible nest records for the Hatchie NWR was on Little Lake in 1985 (Waldron, pers. comm.). The Breeding Bird Atlas increased the number of inland nesting records (see Nicholson in press). At least one nest was observed at O'Neal Lake, Hatchie NWR during the Foray. Tree Swallows have nested consistently at this location since at least 1988.

Willow Flycatcher. Nest season records for Willow Flycatcher are scattered but increasing in west Tennessee (Pitts 1982, Nicholson in press). One individual was observed and heard singing during the Foray at the intersection of Sugar Creek and Sugar Creek Road. Three subsequent visits to this location during June failed to reveal this bird, although non-singing males and females can be difficult to detect (Pitts 1982).

Fish Crow. One individual was observed and heard in the Hatchie River floodplain downstream from the Hatchie NWR. Reports of Fish Crows from the interior of west Tennessee have occurred since at least 1974 (Waldron, pers. comm.). We speculate that Fish Crows may be expanding their breeding season range in west Tennessee in bottomland hardwood forests of tributaries with suitable nest habitats.

Yellow Warbler. Nesting season records for Yellow Warbler are concentrated in west Tennessee along the Mississippi River and Tennessee River (Nicholson 1982), although nest records are increasing from inland counties (see Nicholson in press). Two individuals were observed at different locations in the Hatchie River watershed during the Foray weekend.

At least two factors influenced these results from Haywood County. Both, unfortunately, caused numbers to be lower than otherwise expected. First, deteriorating weather conditions resulted in different bird watching during much of the Foray. Second, the timing of Memorial Day, the traditional Foray weekend, occurred earlier than usual this year, perhaps reducing chances of observing breeding birds this year.

ACKNOWLEDGMENTS

Foray participants were Dianne Bean, Bob Ford, Paul Hamel, Ron Hoff, Theresa Irion, George Mayfield, Cleo Mayfield, Dollyann Myers, Gerald Papachristou, Virginia Reynolds, Ann Tarbell, and Martha Waldron. We thank Chuck Nicholson and Martha Waldron for their review of this manuscript. We dedicate this report to Ben Coffey, whose curiosity and intense interest in birds motivates us to continue to learn more about the avifauna of west Tennessee.

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Appendix I. Birds detected during the 23-24 May 1992 Foray in Haywood County, Tennessee. The total represents all birds observed during approximately 70 party-hours and 13 trips into all parts of the county, including miniroutes. Miniroute results represent the number of stops a species occurred out of 15 total stops per route. Miniroute I was in the Forked Deer watershed, Miniroute II was in uplands adjacent to the Hatchie River, Miniroute III was on Powell Road in the Hatchie National Wildlife Refuge.

		Miniroutes		
Species	**Total**	**I**	**II**	**III**
Great Blue Heron	30	3	—	3
Cattle Egret	3	—	—	—
Green Heron	8	1	1	—
Yellow-crowned Night-Heron	2	—	—	—
Canada Goose	8	—	—	1
Wood Duck	9	—	—	1
Mallard	1	—	—	—
Blue-winged Teal	2	—	—	—
Hooded Merganser	12	—	—	—
Black Vulture	5	—	—	—
Turkey Vulture	53	—	—	—
Osprey	1	—	—	—
Mississippi Kite	2	—	—	—
Sharp-shinned Hawk	1	—	—	—
Red-shouldered Hawk	7	—	—	1
Red-tailed Hawk	3	—	1	—
American Kestrel	3	—	1	—
Northern Bobwhite	33	6	3	3
American Coot	3	—	—	—
Killdeer	15	1	3	—
Rock Dove	8	—	1	—
Mourning Dove	65	13	5	—
Yellow-billed Cuckoo	7	—	1	1
Barred Owl	13	—	—	1
Common Nighthawk	3	—	—	—
Chimney Swift	26	1	1	4
Ruby-throated Hummingbird	20	1	—	—
Belted Kingfisher	7	1	2	—
Red-headed Woodpecker	15	1	—	—
Red-bellied Woodpecker	47	2	1	11
Downy Woodpecker	31	1	1	2
Hairy Woodpecker	8	—	—	—
Northern Flicker	12	3	—	1
Pileated Woodpecker	12	—	—	—
Eastern Wood-Pewee	28	2	1	6
Acadian Flycatcher	72	4	—	12
Willow Flycatcher	1	—	—	—

Species	Total	Miniroutes I	II	III
Eastern Phoebe	12	2	—	—
Great Crested Flycatcher	39	4	1	6
Eastern Kingbird	19	—	2	—
Horned Lark	2	—	—	—
Purple Martin	24	3	—	—
Tree Swallow	6	—	—	—
N. Rough-winged Swallow	4	—	—	—
Barn Swallow	55	2	3	—
Blue Jay	40	1	2	1
American Crow	103	7	3	10
Fish Crow	1	—	—	—
Carolina Chickadee	61	1	1	3
Tufted Titmouse	61	3	1	14
White-breasted Nuthatch	12	—	—	4
Carolina Wren	65	4	4	1
Blue-gray Gnatcatcher	62	5	—	13
Eastern Bluebird	29	—	2	—
Wood Thrush	15	1	—	4
American Robin	36	—	1	—
Gray Catbird	3	—	2	
Northern Mockingbird	49	5	4	—
Brown Thrasher	23	—	1	
Cedar Waxwing	22	—	—	—
Loggerhead Shrike	14	1	—	—
European Starling	41	—	1	—
White-eyed Vireo	34	1	2	5
Yellow-throated Vireo	10	—	—	2
Warbling Vireo	1	—	—	—
Red-eyed Vireo	9	1	1	6
Northern Parula	33	1	—	6
Yellow Warbler	2	—	—	—
Magnolia Warbler	2	—	—	—
Yellow-throated Warbler	11	1	—	1
Prairie Warbler	1	—	—	—
Cerulean Warbler	2	—	—	1
Black-and-white Warbler	1	—	—	1
American Redstart	13	—	—	1
Prothonotary Warbler	65	—	—	13
Swainson's Warbler	2	—	—	—
Louisiana Waterthrush	5	—	—	—
Kentucky Warbler	9	1	1	—
Common Yellowthroat	78	6	7	4
Yellow-breasted Chat	23	6	2	1
Summer Tanager	21	1	3	—
Northern Cardinal	97	12	4	5

Species	Total	Miniroutes I	II	III
Blue Grosbeak	12	—	—	—
Indigo Bunting	119	11	9	10
Dickcissel	29	3	1	_
Rufous-sided Towhee	26	2	1	_
Field Sparrow	24	3	4	—
White-crowned Sparrow	1	—	—	—
Red-winged Blackbird	100	11	10	2
Eastern Meadowlark	69	7	9	1
Common Grackle	349	9	11	—
Brown-headed Cowbird	55	10	3	5
Orchard Oriole	7	—	—	—
House Finch	1	—	—	—
American Goldfinch	36	2	2	1
House Sparrow	44	—	1	—

Accepted 20 November 1994

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ENCOUNTERS OF A TENNESSEE-HACKED BALD EAGLE

Robert M. Hatcher
Tennessee Wildlife Resources Agency
P.O. Box 40747, Nashville, TN 37204

Hacking is a management technique whereby young birds of prey are released into the wild in an effort to restore breeding populations. This process has proven successful for Bald Eagles (*Haliaeetus leucocephalus*) and other species in Tennessee and elsewhere. This is the story of one such hacked eagle, band #629-37409 (also marked by a patagial tag on the left wing with the two-inch high orange number 79).

This eagle was a product of captive breeding at the zoo in Montgomery, Alabama. At almost 13 weeks old, it was released from a hack site at Douglas Lake, Tennessee, on 27 June 1992 by the National Foundation to Protect America's Eagles and the Tennessee Wildlife Resources Agency. Tracking by radio telemetry indicated that it had dispersed from the area by about 29 June. Ohio Department of Natural Resources personnel reported this eagle to have been observed 4-9 July on Lake Erie, about 30 km (20 mi) west of Cleveland, Ohio.

Within a one-half hour period on 2 August 1992 this eagle was live-trapped by two separate, but nearby, hawk banders on the southern shore of Lake Ontario. David Petlow and a colleague, of the Braddock Bay Raptor Research Project, each captured the eagle in bow nets at sites about 16 km (10 mi) northwest of Rochester, New York. Its transmitter was still intact on a central tail feather. Petlow stated that the eagle was in good condition and did not demonstrate any tameness.

The final encounter of this juvenile eagle occurred on 15 January 1993 when it was found dead in Washington County, in southeastern Ohio. Keith Morrow of the Ohio DNR reported that it was found in the bottom of a ravine in a heavily timbered area. It had been dead for an estimated four to six weeks. Scavengers had removed most of the flesh, leaving only the skeleton and feathers. The leg band and transmitter were still intact. No broken bones were detected and the cause of death is unknown. The remains were to be sent to the Eagle Repository in Oregon.

Of four eagles released at Douglas Lake in 1992, this was the first to have been reported dead. It was the fifth of 34 eagles released that year in Tennessee to be reported dead (as of February 1993). Since we project that 45% will die during the first year following release and 10% during each subsequent year, it is highly likely that several other mortalities have gone undiscovered and/or unreported. Despite this rate of mortality, Tennessee's Bald Eagle population continues to increase.

We appreciate NFPAE's contribution to releases at Douglas Lake and other hack sites. Thanks also to those who report encounters of marked birds. I thank Richard Knight for assistance with this note.

Accepted 23 February 1993.

The Migrant, 64 (2): 33-34, 1993.

IN MEMORIAM: LILLIE HASSLOCK MAYFIELD, 1890-1990

Lillie Hasslock in 1916 was the first female member "permitted to join" the Tennessee Ornithological Society. One should recall that this was several years before the Constitution of the United States was amended to allow women the right to vote.

Lillie was born on 26 September 1890 in south Nashville. All four families of her grandparents had emigrated from Germany to the United States about 1848 at the time of the failed "Revolution," an attempt to join the multiple small principalities of Germany into a single large republic. She was the daughter of the late Herman Adam and Clara Woolsey Hasslock. She attended Nashville public schools and Peabody College, from which she graduated in 1912. She then began teaching at Turner School on Nolensville Road in "Flatrock," where she taught all high school subjects to all high school students in the Davidson County System. Later, she taught biology at Hume Fogg High School in the Nashville City School System, where the late Ben B. Coffey and the late Vernon Sharp were her pupils.

About the time she finished college she met and was courted by TOS founder, George R. Mayfield, Sr. On many occasions they would ride the No. 8 Glendale streetcar to the end of the line near Lealand and Tyne Lanes, then walk over the hills to Radnor Lake for an outing and day of nature study. Her husband-to-be was the first secretary of the TOS in 1915-16 and, when he departed for France during World War I, Lillie became the second secretary in 1917-18. Upon his return, they were married 15 March 1920 at First (now Downtown) Presbyterian Church in Nashville. Shortly before the wedding, George's German students at Vanderbilt wrote "Beware the Ides of March" on the blackboard before classes began.

George, Jr., born in 1927, and his father are the only father and son who have served as president of the TOS. During the 1930s the entire family of three attended meetings of the Nashville Chapter in the Social-Religious Building on the Peabody campus and annual TOS Spring Meetings in Nashville and Knoxville. TOS meetings in Knoxville were held in the beautiful area surrounding the home of Mr. and Mrs. H.P. Ijams, which is now preserved as a nature center. In Nashville, the meetings were held at various places on streams such as Stones River ("Birds I View," the camps of Mayfield, Ganier, Vaughn, and Sharp), Harpeth River, and Sycamore Creek. It was not unusual for the annual Spring Meeting to take place on a sandbar

in the creek, while women prepared lunch and Dr. Harry Vaughn made coffee in the shade nearby.

In 1940, after a 13-year interruption, Lillie returned to teaching biology at Hillsboro High School in Nashville, where she also served as a guidance counselor and carried the unofficial title of "assistant principal." She continued to teach for 18 more years. In addition to ornithology and biology she had a principal interest in botany and flowers, shared in years past with Mrs. Albert F. Ganier and now by her grandson, Mark Hasslock Mayfield, who is presently seeking a Ph.D. in Botany at the University of Texas, Austin. Another grandson, George R. Mayfield III is working on a master's degree in ornithology under Dr. Fred Alsop at East Tennessee State University, Johnson City.

Lillie was a tireless worker in her chosen endeavors. She belonged to AAUW, Nashville Centennial Club, and The Vanderbilt Garden Club. She had an indomitable spirit, was physically active until age 89, and lived until 2 December 1990, past age 100. She is buried in Mt. Olivet Cemetery in Nashville. She also is survived by a daughter-in-law, Cleo Gillund Mayfield of Columbia, who serves as secretary of Columbia TOS, and a granddaughter, Rebecca Paine Mayfield, a Hollins College graduate in studio art, with an emphasis in photography.

GEORGE R. MAYFIELD, JR.

Accepted 23 October 1993.

The Migrant, 64 (2): 35-38, 1993.

MINUTES OF 1993 BOARD OF DIRECTORS & BUSINESS MEETING

The 78th Annual Meeting of the Tennessee Ornithological Society was held in Ellington Auditorium of Reelfoot State Park on 1 May 1993. The meeting was hosted by the Memphis and Jackson Chapters. President Bob Ford presided at both the afternoon Board of Directors and General Business Meeting that evening.

BOARD OF DIRECTORS MEETING

The minutes of the Fall 1992 Board of Directors meeting were approved as written.

REPORTS OF OFFICERS:

West Tennessee V.P. — Martha Ramey reported that the Memphis Chapter proposes to assist with hacking approximately six Peregrine Falcons in downtown Memphis.

East Tennessee V.P. — Wallace Coffey reported that a membership exchange list had been prepared between the Virginia Society of Ornithology and TOS, but had not been mailed.

Treasurer — George Payne, Jr. reported for the period of 29 October 1992 - 25 April 1993. The current assets were $100,247. There had been an income of $20,118 and expenses of $15,778. The capital reserve was $83,522. There were 641 paid-up members; after a report of membership rosters by three chapters, it is anticipated that membership will be between 900 and 950, as for the prior year. A detailed written report is maintained in the TOS Secretary's files.

Curator — In the absence of Curator Chuck Nicholson, President Ford reported that most past ***Migrants*** had been sent to Memphis to Associate Curator Mac McWhirter's home; some were still in Nicholson's home. All will be permanently assigned to Rhodes College for storage. Susan McWhirter moved that back issues of the ***Migrant*** be donated to institutions, such as libraries and wildlife refuges, committing to subscriptions of five years. The motion passed. She moved that at least five originals of each ***Migrant*** issue are to be retained in the files. The motion passed. She moved that each person requesting issues of the ***Migrant*** be charged the same amount a current member would have to pay, which was then $2.50 per issue, plus postage. The motion passed.

THE MIGRANT EDITOR'S REPORT — Wallace Coffey reported that:

— the mailing permit has been moved to Bristol;

— the December 1991 issue, which is the last issue under former Editor David Pitts, is ready for mailing;

— the March 1992 issue has been completed and will be mailed in a few weeks;

— Galen Lenhert has resigned as compiler of Highland Rim/Central Basin for "Season Reports." Dr. Terry Witt has consented to take his place. His address is 507 Highland Terrace, Murfreesboro, Tennessee 37130.

NOMINATING COMMITTEE — Robbie Hassler reported the following slate of nominees for the next two years:

West Tennessee V.P. - Jim Ferguson
Middle Tennessee V.P. - Candy Swan
East Tennessee V.P. - James Brooks

Director at Large - West Tennessee - Martha Waldron
Director at Large - Middle Tennessee - David Hassler
Director at Large - East Tennessee - John Shumate

Treasurer - George Payne, Jr.
Secretary - Bob Hatcher
Curator - Chuck Nicholson
Editor of ***The Migrant*** - Wallace Coffey

FINANCE COMMITTEE — Barbara Finney reported the committee has reviewed the books of the Treasurer. All records are in order except that some membership dues hadn't reached the State Treasury. The Endowment Fund, designed to defray expenses for publishing ***The Migrant***, is growing.

AWARDS COMMITTEE — President Ford reported that committee chairman Ron Hoff has resigned. Awards are to be reduced to one per year, beginning with the Spring 1993 recipient.

BREEDING BIRD ATLAS COMMITTEE — In the absence of committee chairman Chuck Nicholson, President Ford reported that the Atlas write-up is 85 to 90 percent complete. The final draft was expected by June 1993, with the manuscript to be sent to the publisher in the fall of 1993.

BIRD RECORDS COMMITTEE — Rick Knight and President Ford reported the committee proposes to meet in late August with the Executive Committee to restructure the committee.

CONSERVATION-EDUCATION COMMITTEE - Chairman Ken Dubke reported:

— a Cherokee Indian-Sandhill Crane weekend was held at the end of February, with about 1,000 people attending;

— 750 acres of Armstrong Bend in Meigs County has been acquired by the Conservation Fund for transfer to TWRA for management of Sandhill Cranes, waterfowl, and other wildlife;

— TOS is to assist in hacking peregrines in downtown Chattanooga in July;

— George Mayfield, Jr. reported that Monsanto dedicated a third observation blind in April 1993. He received a favorable oral response from a Monsanto vice-president about saving an approximately 400-acre lake that has been proposed for drainage; George is to send him an official recommendation.

PATCHES AND DECAL COMMITTEE — Wallace Coffey reported for the committee chairman, who could not be present. As per the Fall 1992 meeting, Fred Alsop has proposed six potential TOS patches. The Executive Board previously selected a Mockingbird patch, with green border and a more correctly colored Mockingbird egg. The border was to be extended to the edge of the wing tip. Discussion was made of possibly substituting a colorful warbler for the Mockingbird; the Directors' consensus was for the Mockingbird, since TOS has been instrumental in legislative designation of the Mockingbird as the state bird.

THE WARBLER EDITOR'S REPORT — The Board commended Dianne Bean for a "wonderful job" as Editor and wished her well in her likely transfer out of state.

PARTNERS IN FLIGHT COMMITTEE — President Ford reported that goals are to inventory neotropical migrants and other birds in key areas and to understand their habitat associations. The results are to be compared with the breeding bird atlas and other data and serve as guides to management recommendations. Four pilot Wildlife Management Areas are to be surveyed: Shelby, Cheatham, Catoosa, and Tellico. Also, the Tennessee River Gorge near Chattanooga and Westvaco Timber Company lands of Stewart County will be surveyed. Point counts will be utilized at off-road sites in key habitat areas. Atlas-type miniroutes will be made around these WMA's. A Cheatham County foray was planned over Memorial Day weekend to demonstrate techniques.

OLD BUSINESS:

TOS HISTORIAN — President Ford advised he is still open to a volunteer to fill this position. If not filled, these duties will be handled by the Curator or not at all.

TENNESSEE ENVIRONMENTAL COUNCIL — George Payne advised TOS has been paying dues of $50 per year. TEC now has two categories of dues: affiliate membership groups at $50 for less than 250 members and $250 for larger groups like TOS. Ken Dubke moved to discontinue membership; seconded by Barbara Finney. Motion carried.

BIRDS AND BIODIVERSITY MANUAL — An interpreter's manual has been drafted to aid state park naturalists and others. The authors include individual TOS members for different species. The TOS Executive Board will review the manual before release.

TOS BIRD CALENDAR — Tommie Rogers advised a minimum of 100 calendars could be ordered from the Charles Clayton Company at $1.72 each. They could be sold by TOS for $3.25 to $4.50 as a fundraiser. Each month would depict a different bird species. TOS would be credited on each page. The consensus of the Board is that individual interested chapters can pursue this in coordination with Tommie.

NEW BUSINESS:

TOS MEMBERSHIP LIST — A membership list, with name, address, and telephone number, has been proposed at a cost of $916. To determine such demand, the Executive Board has requested that the Treasurer prepare an updated membership list (without telephone number) and send it to the Secretary for copying and distribution as requested. Advertising would be provided in the Fall issue of *The Warbler*. Should there be sufficient demand for the list, preparation of additional lists would be considered.

AT-LARGE MEMBERSHIP — At-large members' names are to be made available by the Treasurer to area Directors at Large for overall guidance. Such new members are to be given the opportunity to join chapters and receive chapter newsletters. Area Members at Large are to be encouraged by Directors at Large to join local chapters to receive chapter benefits.

NONGAME FUNDING SOURCE COMMITTEE — Tennessee Conservation League Executive Director Tony Campbell submitted a resolution for joint sponsorship by TOS to recommend legislation for Nongame Funding for the future.

CHRISTMAS BIRD COUNT DUES — A written recommendation was sent by James Brooks of the Herndon Chapter for withdrawing from sending Christmas Bird Counts to *American Birds* as protest for Audubon's charge of $5.00 per participant. Ben Coffey moved that TOS should not demean itself by withdrawing from *American Bird's* contributions. Ann Tarbell stated that Audubon has submitted an accounting of cost, and they are quite near contributions by TOS Christmas Bird Count participants. No change was made.

LOCATIONS OF FUTURE MEETINGS — The Fall 1993 meeting site is to be selected. For the Spring 1994 meeting, Roan Mountain was the preferred site, to be hosted by the Lee R. Herndon Chapter.

GENERAL BUSINESS MEETING:

TOS members were served dinner in Ellington Auditorium of Reelfoot State Park.

Field trip leaders described highlights of trips to Walnut Log, Burnt Woods, and Long Point. Unusual birds included a Painted Bunting, Bald Eagle, Tricolored Heron, and a Stilt Sandpiper.

Treasurer George Payne, Jr. gave the Treasurer's Report, as recorded for the Directors' Meeting.

President Ford reported on highlights of the Directors' Meeting, including the Curator's Report and associated actions. Wallace Coffey gave his status report as Editor of ***The Migrant*** and invited articles.

Robbie Hassler presented the Nominating Committee's slate of officers for the next two years. They were elected by acclamation as listed for the Directors' Meeting.

Committee reports were summarized, as recorded in the Directors' Meeting minutes. It was announced that the Fall Meeting will be hosted by either the Upper Cumberland or Chattanooga Chapters, both of which have volunteered. The Spring 1994 Meeting will be hosted by the Lee R. Herndon Chapter in the Roan Mountain area.

The TOS Distinguished Service Award was given to Virginia Price, a member of the Nashville Chapter since 1971. She was recognized for her 10 years of operation of the Amelia Laskey Memorial Wildlife Refuge for rehabilitation of birds. She has given numerous talks to garden clubs and other organizations. She is a bird bander, has held various TOS chapter officer positions, and has graciously hosted numerous chapter bird count compilations. Her enthusiastic and contagious attitude about birds has influenced many people for the good of our bird life.

Ben Coffey introduced the guest speaker, Dr. James A. Kushlan, who is chairman of the University of Mississippi's Department of Biology and co-author of two books concerning herons. Dr. Kushlan then presented an informative and interesting slide program concerning "Herons, Storks and Ibises."

Respectfully submitted,

BOB HATCHER, TOS Secretary

The Migrant, 64 (2): 39-44, 1993.

1993 SPRING FIELD DAYS

Susan N. McWhirter

Twelve counts were held across the state during the 1993 Spring Field Days with a total of 200 species seen. Several of these counts were conducted in conjunction with the second annual North American Migration Count (NAMC), a nationwide count with emphasis on neotropical migrants. Counts such as these provide valuable information for studies on the declining populations of these birds due to brood parasitism, predation, habitat loss, and pesticide use. The TOS has been conducting annual Spring counts in the current format since 1946, but never with the degree of participation that the annual Christmas count receives. With our Society's commitment to Partners in Flight, we should increase our Spring counts both in number of individual counts and in participants, and, if possible, conduct these counts in coordination with the NAMC, thereby making the results useful beyond our own records.

INFORMATION ON THE COUNTS

MEMPHIS - 25 April; 0730-1800; rain; 20 observers in 5 parties. Martha Waldron (compiler - 1626 Yorkshire Dr., Memphis 38119).

HATCHIE NWR - 8 May; sunny and clear; temp. 75-86F; 3 observers in one party. Bethany Greene, Gail Greene, Mark Greene (compiler - 194 Mt. Orange Rd., Trenton 38382).

MONTGOMERY COUNTY - 8,9 May; sunny; temp. 65-88F; 10 observers. Joe Allen (compiler - 2915 Rossview Rd., Clarksville 37043), Amy Atkins, Angele Crouch, Annie Heilman, Nancy Hughes, W.G. Lyle, Bill Milliken, Gloria Milliken, Jean Thomas, Stanley York.

COLUMBIA - 7,8 May; partly cloudy; temp. 62-85F; 10 observers. Barbara Finney, Jim Finney, William Jernigan, Allyn Lay, Anne Lochridge, Bedford Lochridge, Cleo Mayfield, George Mayfield (compiler - 999 Sunnyside Dr., Columbia 38401), Wendell Robinson, Karen Stephens.

NASHVILLE - 8,9 May; 0500-1800 Sat.; 0600-1200 Sun.; sunny and calm; temp. 60-85F; 31 observers in 7 parties; 58 party hours; 120 party miles. Jan Alexander, Rachel Brenner, Robert M. Brayden, Richard Connors, Jerry Drewry, Frances Duvall, Ray Fleischer, Ed Gleaves, Miles Gleaves, Mark Hackney, Barbara Harris (compiler - 2225 Pinewood Rd., Nashville 37216), Bob Hatcher, Daniel Jacobson, Alan Justiss, Lee Kramer, Joni Langevoort, Gail Lavely, Galen Lenhart, Scott Lavell, F. Joseph McLaughlin, Sharon Monroe, Richard Newton, Elizabeth O'Connor. Magness Persmark, Walter Powers, Cathy Schlessman, Jan Shaw, Sheila Shay, Joe Stone, Jim Thomas, Sabin Thompson, Bob Van Kirk, Kenneth Walkup.

MANCHESTER - 23 April, 0600-2100, and 24 April, 0515-1800; clear to partly cloudy with winds 15-25 mph; temp. 63-72F; 23 observers in 12 parties plus 10 at feeders; 71 party hours (44 by car, 26 on foot, 1 by boat), plus 27 at feeders and 1 owling; 649 party miles (616 by car, 30 on foot, 3 by boat), plus 15 owling. John Bruner, Lois Bruner, Dean Butler, Laura Butler, Don Davidson (compiler - 1703 2nd Ave., Manchester 37355), Suzanne Dundas, Ivan Field, Frances Fults, Katherine Gilliam, Nancy Gilliam, Jerry Ingles, Dot Latremore, Fred Latremore, Jim Liester, Ruth Luckadoo, Agnes Marcrom, Joe Martinez, Nickie Medley, Phil Medley, Anna

Parker, Chloe Peebles, Howell Peebles, Catherine Powell, Erma Rogers, Mary Shelton, Rieda Shelton, Quincy Styke, Jean Sullivan, Ann Wells, Harry Yeatman, Jean Yeatman, Grady York, Wilma York.

PUTNAM COUNTY - 8 May; clear in AM, cloudy with thunderstorm in PM; temp. 57-87F; 15 observers in 6 parties; 69 party hours plus 4 owling; 501 party miles plus 66 owling. The Bald Eagle and American Wigeon are new for this count. Carol J. Brown, Daniel L. Combs, David Hume, Graham S. Kash, John Lane, Ken Morgan, Handley Oswalt, Thomas H. Roberts, Ann M. Sanders, Michael A. Sanders, Joanne T. Schaefer, Barbara H. Stedman, Stephen J. Stedman (compiler - 2675 Lakeland Dr., Cookeville 38501), Catherine E. Walden, Winston A. Walden.

HAMILTON COUNTY - 8 May; 26 observers in 11-13 parties; 82.25 party hours (24 on foot, 58.25 by car); 588 party miles (30 on foot, 558 by car). The gull species was either a Laughing Gull or Franklin's Gull. Betty Anderson, Lloyd Anderson, Edith Bromley, Mary Lynn Buttram, Kevin Calhoon, Paul Cole, Ken Dubke, Lil Dubke, Edgar Grundset, Bill Haley, Candy Haley, Al Jenkins, Jonnie Sue Lyons, Barbara McMahan, Mike McMahan, Tom Patton, Robert Pierce, Charles Roberson, Peter Robinson, Tommie Rogers, Lynn Sauls, Bernie Tompkins, Brent Tompkins, David Vogt, David Winters, Libby Wolfe. Non-participating compiler - John Henderson, 7323 Fairington Cl., Hixon 37343.

CUMBERLAND COUNTY - 8 May; clear with no wind; temp. 55-89F; 5 observers; 16 party hours; 176 party miles. The Red-shouldered Hawks were 2 adults with 2 fledglings near nest. Matt Dungan, Ramona Pennington, Joseph Richardson, Richard Simmers, Candy Swan (compiler - 2834 Pen Hook Rd., Monterey 38574).

KNOXVILLE - 25 April; partly cloudy with light to moderate wind; temp. 40-80F; 22 observers in 15 parties; 74 party hours, plus 4 owling; 217 party miles. Mike Baltz, Jane Beintema, Frank Bills, Sharon Bostick, Betty Reid Campbell, Jim Campbell, Howard Chitwood, Mary French, Paul Hartigan, Erin Hinton, Audrey Hoff (compiler - 4523 McCloud Rd., Knoxville 37938), Susan Hoyle, Tony Koella, Bettie Mason, James Mason, Alison McNutt, Bill McNutt, Paul Pardue, Truett Patterson, Martha Rudolph, Paul Saunders, Boyd Sharp, John Upchurch.

GREENEVILLE - 24 April; partly cloudy; wind S, 5 mph; temp. 41-75F; 23 observers in 13 parties plus 4 at feeders; 62 party hours (31 by car, 29 on foot, 2 by boat), plus 12 at feeders; 319.5 party miles (294 by car, 23.5 on foot, 2 by boat). Mark Britton, Orland Britton, Phine Britton, Cynthia Cragin, Herb Cragin, Marjorie Earnest, Ann Gaut, King Gaut, Heather Hayes, Paul Hayes, Barbara Holt, Carrie Holt, Henrietta Holt, Jim Holt (compiler - 311 Colonial Cl., Greeneville 37743), Alice Loftin, Don Miller, Richard Nevius, Willie Ruth Nevius, Doug Ratledge, Helen Reed, Joanne Routledge, Larry Routledge, Tom Sanders, Helen Spees, Royal Spees, Virginia Williams.

ELIZABETHTON - 25 April; 0430-2130; clear, becoming cloudy in late PM; temp. 34-80F; wind SE, 0-15 mph, with gusts to 35 mph in mtns.; 109.5 party hours, plus five hours owling; 25 observers in 10 parties. Details submitted for White-rumped Sandpiper (RK). Fred Alsop, David Blatchly, Janet Brown, Wallace Coffey, Patricia Countiss, Joy Crass, Mark Crass, Brian Cross, Martha Dillenbeck, Rusty Dunn, Rick Knight (compiler - 804 N. Hills Dr., Johnson City 37604), Kelli Mayfield, Rad Mayfield, Tom McNeil, Jerry Nagel, John Shumate, Lorrie Shumate, Stan Strickland, Cathi Sullins, Gary Wallace, Frank Ward, Jim Wayland, Shirley Wayland, Krystal Winebarger, Pete Wyatt.

1993 SPRING FIELD DAYS

Species	Memp	Hatch	Mont	Colu	Nash	Manch	Putn	Hamil	Cumb	Knox	Greene	Eliz
Common Loon	*	*	*	1	31	3	*	*	*	*	*	2
Pied-billed Grebe	1	*	*	4	*	3	2	1	*	*	1	1
Double-crested Cormorant	*	*	*	6	16	7	*	*	*	19	*	4
American Bittern	*	*	*	*	*	*	*	1	*	*	*	1
Great Blue Heron	1	12	1	6	21	41	10	112	1	48	6	3
Great Egret	*	6	*	*	6	*	*	1	*	1	*	*
Little Blue Heron	*	1	1	1	*	*	*	*	*	*	*	*
Cattle Egret	3	2	*	2	26	1	*	49	*	*	*	*
Green Heron	*	1	1	8	15	3	7	11	2	10	5	17
Black-crowned Night-Heron	*	*	*	*	218	*	*	*	*	5	2	3
Yellow-crowned Night-Heron	1	6	*	*	*	*	*	4	*	*	*	1
Snow Goose	*	*	*	*	*	1	*	*	*	2	2	1
Canada Goose	17	2	9	92	161	181	51	144	*	87	87	95
Wood Duck	20	4	5	27	63	10	23	26	*	25	10	54
Mallard	46	3	15	14	82	23	*	79	*	14	13	37
Blue-winged Teal	9	*	*	1	*	14	*	1	*	2	5	14
Northern Shoveler	*	*	*	*	*	*	*	*	*	2	*	*
Gadwall	*	*	*	1	*	2	*	*	*	*	*	1
American Wigeon	*	*	*	*	*	*	9	*	*	*	*	*
Ring-necked Duck	*	*	*	*	*	1	*	*	*	*	*	*
Bufflehead	*	*	*	*	*	*	*	*	*	*	*	3
Hooded Merganser	*	1	*	*	*	1	*	*	*	*	1	*
Red-breasted Merganser	*	*	*	*	*	1	*	*	*	*	*	*
Black Vulture	*	5	6	26	18	75	1	8	*	23	18	6
Turkey Vulture	*	4	36	43	67	67	66	30	6	33	35	103
Osprey	*	2	*	1	3	2	*	1	*	6	3	6
Bald Eagle	*	*	*	*	*	*	1	*	*	*	*	*
Mississippi Kite	*	4	*	*	*	*	*	*	*	*	*	*
Northern Harrier	*	*	*	*	*	3	*	*	*	1	*	*
Sharp-shinned Hawk	*	*	*	*	*	2	3	1	3	2	1	2
Cooper's Hawk	*	*	*	2	*	*	*	2	*	3	2	4
Accipiter sp.	*	*	*	*	*	*	1	*	*	*	*	*
Red-shouldered Hawk	*	10	2	4	10	3	1	21	4	*	*	*
Broad-winged Hawk	*	*	*	4	6	7	2	8	5	4	2	12
Red-tailed Hawk	4	5	9	11	19	11	16	5	5	5	4	16
American Kestrel	4	1	2	8	16	12	15	2	*	5	12	12
Peregrine Falcon	1	*	*	*	*	*	*	*	*	*	*	*
Ruffed Grouse	*	*	*	*	*	*	1	*	*	*	4	12
Wild Turkey	1	*	*	*	1	4	*	*	*	*	*	2
Northern Bobwhite	16	5	22	48	43	9	34	11	1	6	4	6
Sora	*	*	*	1	1	*	*	*	*	*	*	1
American Coot	*	*	*	*	*	*	*	5	*	2	*	3
Killdeer	31	4	18	110	27	33	63	55	10	45	34	62
Greater Yellowlegs	10	*	*	1	*	*	*	*	*	*	*	*
Lesser Yellowlegs	85	*	*	4	*	1	*	*	*	2	*	1
Solitary Sandpiper	46	*	*	3	1	6	3	3	*	21	11	43
Spotted Sandpiper	2	*	*	18	9	1	14	6	*	7	4	14
Upland Sandpiper	*	*	*	*	*	1	*	*	*	*	*	*
Western Sandpiper	*	8	*	*	*	*	*	*	*	*	*	*
Least Sandpiper	33	*	*	22	*	*	*	*	*	9	3	6
White-rumped Sandpiper	*	*	*	*	*	*	*	*	*	*	*	1
Pectoral Sandpiper	140	5	*	10	1	*	*	*	*	*	*	*
Short-billed Dowitcher	7	*	*	*	*	*	*	*	*	*	*	*
Common Snipe	3	*	*	*	*	9	*	*	*	15	*	5
American Woodcock	*	*	*	2	2	*	1	*	*	*	*	*
Black-necked Stilt	5	*	*	*	*	*	*	*	*	*	*	*
Laughing Gull	1	*	*	*	*	*	*	*	*	*	*	*
Ring-billed Gull	*	*	*	*	*	20	*	8	*	1	*	55

1993 SPRING FIELD DAYS

Species	Memp	Hatch	Mont	Colu	Nash	Manch	Putn	Hamil	Cumb	Knox	Greene	Eliz
Gull sp.	*	*	*	*	*	*	*	1	*	*	*	*
Caspian Tern	*	*	*	*	*	2	*	2	*	*	*	1
Forster's Tern	*	*	*	*	*	1	*	*	*	*	*	*
Rock Dove	255	5	35	31	15	46	75	41	30	149	70	159
Mourning Dove	93	16	114	98	102	179	155	260	27	263	44	229
Black-billed Cuckoo	*	*	*	*	1	*	*	*	*	*	1	1
Yellow-billed Cuckoo	*	3	5	23	26	1	5	6	1	*	*	*
Barn Owl	*	*	*	*	*	*	*	1	*	*	3	1
Eastern Screech-Owl	*	*	*	6	5	1	2	1	*	1	1	5
Great Horned Owl	*	*	*	7	5	1	*	3	*	1	1	3
Barred Owl	4	2	2	9	5	4	6	4	*	*	*	1
Common Nighthawk	*	1	2	9	4	1	8	4	*	1	*	1
Chuck-will's-widow	*	*	*	15	5	1	16	11	*	7	*	4
Whip-poor-will	*	*	*	15	2	2	30	13	*	*	*	*
Chimney Swift	21	31	72	104	121	62	186	324	44	245	76	280
Ruby-throated Hummingbird	2	6	7	7	13	24	5	12	1	3	7	22
Belted Kingfisher	1	3	6	11	19	8	3	17	1	8	4	17
Red-headed Woodpecker	5	3	8	16	5	9	11	12	2	*	*	3
Red-bellied Woodpecker	33	10	30	47	56	27	31	57	3	48	26	41
Yellow-bellied Sapsucker	*	*	*	*	*	2	*	*	*	*	*	*
Downy Woodpecker	11	6	12	29	22	28	8	38	1	35	22	30
Hairy Woodpecker	*	*	6	8	4	1	6	9	1	1	1	7
Northern Flicker	6	2	8	5	14	24	28	34	2	24	28	76
Pileated Woodpecker	10	4	13	18	20	11	14	21	4	14	31	50
Olive-sided Flycatcher	*	*	*	*	3	*	*	*	*	*	*	*
Eastern Wood-Pewee	3	9	44	39	63	*	74	37	9	*	*	*
Acadian Flycatcher	*	8	9	25	35	*	34	6	3	*	*	*
Willow Flycatcher	*	*	*	1	3	*	*	1	*	*	*	*
Least Flycatcher	*	*	*	*	1	1	*	*	*	*	*	3
Eastern Phoebe	5	2	19	43	32	6	30	22	2	5	11	34
Great Crested Flycatcher	7	8	25	45	43	8	34	61	1	12	2	10
Eastern Kingbird	22	4	44	76	66	38	76	114	9	16	17	20
Horned Lark	5	2	*	*	*	3	4	*	*	*	*	*
Purple Martin	29	7	62	28	45	79	68	144	48	52	79	84
Tree Swallow	9	13	*	4	*	28	4	*	3	36	4	31
N. Rough-winged Swallow	13	*	26	81	31	53	40	38	10	66	17	141
Bank Swallow	*	*	*	*	*	*	4	15	4	3	4	2
Cliff Swallow	*	*	1200	*	500	17	10	79	*	1	*	45
Barn Swallow	74	16	61	81	32	120	114	105	73	101	144	162
Blue Jay	29	6	64	50	79	123	121	204	20	226	95	200
American Crow	14	15	81	61	89	182	112	229	26	234	148	519
Fish Crow	3	5	*	*	*	*	*	*	*	*	*	*
Common Raven	*	*	*	*	*	*	*	*	*	*	*	6
Carolina Chickadee	25	12	44	35	80	73	46	128	3	141	60	176
Tufted Titmouse	54	10	73	59	80	84	50	126	9	102	41	139
Red-breasted Nuthatch	*	*	*	*	*	*	*	*	*	*	*	9
White-breasted Nuthatch	1	2	22	18	32	25	16	33	3	8	2	13
Brown-headed Nuthatch	*	*	*	*	*	*	*	12	*	*	*	*
Brown Creeper	*	*	*	*	*	*	*	*	*	*	1	1
Carolina Wren	67	7	44	73	78	36	80	108	9	134	34	90
Bewick's Wren	*	*	1	1	*	*	*	*	*	*	*	*
House Wren	*	*	17	7	7	*	5	*	1	15	13	31
Winter Wren	*	*	*	*	*	*	*	*	*	*	2	17
Sedge Wren	*	*	*	*	1	*	*	*	*	*	*	*
Marsh Wren	*	*	*	*	1	*	*	*	*	*	*	*
Golden-crowned Kinglet	*	*	*	*	*	*	*	*	*	1	*	9
Ruby-crowned Kinglet	1	*	*	*	1	7	*	*	*	71	2	33
Blue-gray Gnatcatcher	49	12	32	80	156	27	104	116	27	120	8	150
Eastern Bluebird	3	*	94	131	68	95	98	128	14	24	39	54
Veery	1	2	1	2	7	*	*	2	*	4	*	1

1993 SPRING FIELD DAYS

Species	Memp	Hatch	Mont	Colu	Nash	Manch	Putn	Hamil	Cumb	Knox	Greene	Eliz
Gray-cheeked Thrush	3	1	*	1	11	*	*	*	*	*	*	*
Swainson's Thrush	77	2	12	16	79	*	1	2	*	18	1	1
Wood Thrush	22	7	16	46	33	6	87	68	10	33	*	51
American Robin	70	10	194	106	160	301	230	296	61	300	251	792
Gray Catbird	6	2	7	20	31	9	35	18	1	4	3	5
Northern Mockingbird	38	16	167	75	50	66	118	114	3	123	47	61
Brown Thrasher	10	2	28	42	35	46	49	75	2	31	31	42
American Pipit	*	*	*	*	*	*	*	*	*	4	*	*
Cedar Waxwing	*	20	19	8	171	32	6	208	1	5	*	*
Loggerhead Shrike	2	3	11	13	6	3	4	11	*	2	*	4
European Starling	192	81	291	180	502	374	601	608	120	581	299	918
White-eyed Vireo	42	6	26	64	55	12	75	39	2	16	4	14
Solitary Vireo	*	*	*	*	1	1	4	*	1	5	1	54
Yellow-throated Vireo	8	1	6	6	12	3	25	14	13	2	1	1
Warbling Vireo	3	*	16	8	10	*	*	*	1	*	2	1
Philadelphia Vireo	*	*	*	*	2	*	*	*	*	*	*	*
Red-eyed Vireo	31	5	21	42	72	19	262	114	43	63	1	22
Blue-winged Warbler	14	*	1	10	13	5	22	*	1	6	*	1
Golden-winged Warbler	*	*	*	*	1	*	*	1	*	*	*	*
Tennessee Warbler	29	3	28	38	60	*	4	7	*	5	1	*
Nashville Warbler	1	*	*	1	1	*	*	*	*	4	*	*
Northern Parula	37	11	1	9	12	10	27	*	7	*	*	47
Yellow Warbler	8	7	1	24	29	8	29	9	2	6	3	35
Chestnut-sided Warbler	2	1	1	9	11	3	3	1	2	3	*	2
Magnolia Warbler	*	*	*	11	11	3	3	*	*	5	*	4
Cape May Warbler	*	*	*	8	5	*	6	7	*	4	*	*
Black-throated Blue Warbler	*	*	*	*	*	*	*	*	*	5	3	72
Yellow-rumped Warbler	43	7	1	6	57	30	9	27	*	129	67	65
Black-throated Green Warbler	6	*	2	1	2	4	2	*	5	21	4	116
Blackburnian Warbler	1	*	*	2	1	1	*	1	1	12	*	*
Yellow-throated Warbler	2	2	7	22	12	4	12	14	8	2	*	10
Pine Warbler	*	4	2	11	2	7	9	42	5	8	1	1
Prairie Warbler	*	2	20	19	24	12	58	28	29	5	*	1
Palm Warbler	8	*	*	4	5	18	3	6	*	9	*	9
Bay-breasted Warbler	*	*	1	*	25	*	3	*	*	6	*	*
Blackpoll Warbler	2	*	1	15	21	2	12	10	1	4	*	2
Cerulean Warbler	6	1	*	4	3	2	29	*	*	13	*	*
Black-and-white Warbler	7	*	*	7	15	8	31	7	8	11	3	56
American Redstart	3	13	*	7	4	*	23	3	1	7	5	2
Prothonotary Warbler	9	5	18	10	18	3	4	2	*	*	3	2
Worm-eating Warbler	*	*	*	7	7	3	10	*	2	8	2	19
Swainson's Warbler	1	*	*	*	*	*	*	*	*	*	*	*
Ovenbird	3	*	2	9	7	6	55	18	27	12	6	121
Northern Waterthrush	1	*	*	3	5	*	*	*	*	1	*	*
Louisiana Waterthrush	1	*	3	11	5	5	7	2	10	1	*	15
Kentucky Warbler	11	3	11	29	25	3	38	10	12	2	*	4
Connecticut Warbler	*	*	*	*	2	*	*	*	*	*	*	*
Mourning Warbler	*	*	*	*	4	*	*	*	*	*	*	*
Common Yellowthroat	17	15	32	65	98	14	130	46	10	41	9	21
Hooded Warbler	2	*	*	5	17	5	27	9	15	15	*	139
Wilson's Warbler	*	*	*	*	1	*	*	*	*	*	*	*
Canada Warbler	*	*	*	2	2	*	1	1	*	*	*	4
Yellow-breasted Chat	3	5	24	61	33	4	59	44	2	1	*	5
Summer Tanager	16	3	35	32	45	5	41	32	6	8	*	*
Scarlet Tanager	7	*	3	26	23	7	28	26	4	15	2	5
Northern Cardinal	125	17	203	119	180	167	179	238	14	225	125	217
Rose-breasted Grosbeak	5	*	7	11	22	7	5	24	2	35	1	1
Blue Grosbeak	1	2	4	4	9	9	7	14	1	2	*	1
Indigo Bunting	20	55	91	182	155	55	230	141	53	36	6	4
Dickcissel	5	*	18	8	4	1	4	*	*	*	*	*

1993 SPRING FIELD DAYS

Species	Memp	Hatch	Mont	Colu	Nash	Manch	Putn	Hamil	Cumb	Knox	Greene	Eliz
Rufous-sided Towhee	20	7	78	55	71	42	86	103	6	74	23	135
Chipping Sparrow	9	*	27	20	13	54	57	33	22	14	41	126
Field Sparrow	1	3	14	54	58	33	139	58	14	42	4	67
Savannah Sparrow	7	*	*	15	1	9	2	*	*	24	1	13
Grasshopper Sparrow	*	*	*	8	*	*	4	11	*	1	*	*
Fox Sparrow	*	*	*	*	*	*	1	1	*	*	*	*
Song Sparrow	2	*	*	*	2	20	56	87	46	122	45	274
Lincoln's Sparrow	3	*	*	*	2	*	*	*	*	*	*	*
Swamp Sparrow	1	*	*	1	5	3	1	*	*	*	16	11
White-throated Sparrow	49	3	12	14	12	39	12	17	*	111	76	74
White-crowned Sparrow	3	*	*	5	4	2	*	1	1	2	11	23
Dark-eyed Junco	*	*	*	*	*	4	*	*	*	*	4	86
Bobolink	8	*	*	36	20	*	7	1	*	12	*	1
Red-winged Blackbird	333	73	105	124	198	104	230	225	36	197	40	437
Eastern Meadowlark	45	7	135	132	71	215	256	141	29	100	42	227
Common Grackle	55	84	126	240	231	371	195	292	37	241	282	713
Brown-headed Cowbird	96	21	63	140	101	111	95	112	7	60	30	91
Orchard Oriole	5	3	20	47	41	3	48	16	1	7	1	8
Northern Oriole	16	1	3	1	7	1	5	4	*	1	1	1
Purple Finch	*	*	*	*	*	*	*	1	*	*	8	7
House Finch	5	*	52	18	27	62	22	74	*	88	64	105
Pine Siskin	*	*	*	1	*	*	1	*	*	*	*	5
American Goldfinch	126	12	109	117	134	218	107	217	8	107	77	506
House Sparrow	39	2	176	35	30	98	65	62	30	143	29	134
Total Species	119	94	98	137	145	134	125	127	89	130	104	145

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THE SEASON

Robert P. Ford, Editor

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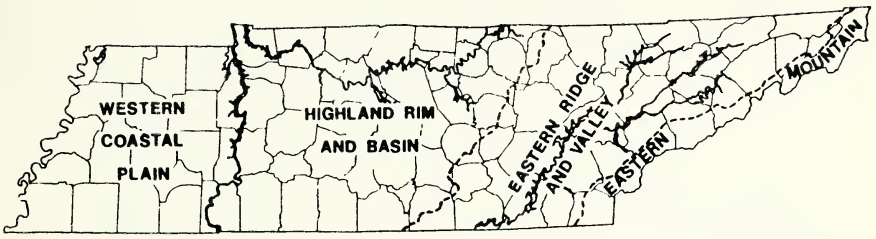

WINTER 1992-93

The occurrence and abundance of birds in Tennessee this winter seemed determined by the warm and slightly wet winter, which had only a few minor cold snaps. Across the state, temperatures were warm and mild, and precipitation was slightly above average. Several long distance migrants to the neotropics occurred in Tennessee and the eastern United States this winter, possibly finding food sources abundant during the warm weather. Species of note included Barn Swallow and two species of tanagers. In fact, among the most notable of records this season was a Western Tanager that occurred in middle Tennessee.

Several good waterfowl sightings occurred in the state, both in the kind of species and the number of individuals. Waterfowl examples include an Oldsquaw in west Tennessee and White-fronted Geese and Tundra Swan in east Tennessee. The winter irruptives, however, were notable in their absence. Very few observers recorded Purple Finch, Pine Siskin, or Evening Grosbeak. Purple Finch numbers are becoming consistently low statewide, especially at feeders, while House Finch numbers are consistently growing. Accurate records each year of numbers and behavior at the feeders, as well as in the field, are important.

The Winter Roadside Raptor Survey continued during the winter of 1992-93. Many of those observations are reported in this Season report. This worthwhile monitoring program can be accomplished by most TOS observers, with a minimum of effort. Contact your regional compiler for more details about the survey and how to become involved.

Many other observations of note are recorded in this report, such as Common Ground-Doves in west Tennessee and northern Mississippi this year. I encourage you to read through them carefully for more information.

Abbreviations used in this report include ad-adult; CBC-Christmas Bird Count; Co.-county; EOP-end of period; f-female; fide-reported by; im-immature; L-Lake; m-male; max-maximum one day count in one county or location; m.ob.-many observers; WMA-Wildlife Management Area; WRRS-Winter Roadside Raptor Survey; *-details submitted.

Table 1. 1993 Midwinter Bald Eagle Count — Tennessee

	Date	Agency	Adults	Immatures	Total
West Tennessee Mississippi River Area					
Reelfoot/Isom Lakes	1/13	FWS	37	24	61
Tiptonville to Kentucky state line	1/13	FWS	1	3	4
Dyer Co.	1/8	TWRA	1	—	2
Hatchie NWR	1/10	FWS	2	—	2
		TOTAL	41	28	69
West Tennessee River Area					
Kentucky Reservoir	1/6	FWS	10	10	20
Pickwick Reservoir	1/8	TWRA	5	1	6
Land Between The Lakes					
Barkley Lake	1/14	TVA	2	—	2
Kentucky Lake	1/14	TVA	14	12	26
		TOTAL	31	23	54
Middle Tennessee					
Cross Creeks NWR	1/15	FWS	2	—	2
Cordell Hull Reservoir	1/9	TOS	8	4	12
Center Hill Reservoir	1/10	COE	2	1	3
Normandy Reservoir	1/6	TOS	2	—	2
Woods Reservoir	1/8	TOS	2	—	2
Dale Hollow Reservoir	1/6	COE	50	16	66
		TOTAL	60	18	78
East Tennessee					
Nickajack Reservoir	1/9	TOS	3	2	3
Parksville Reservoir	1/9	TOS	1	—	1
Norris Reservoir	1/13	TWRA	3	1	4
Chickamauga Reservoir	1/6	TWRA	11	5	16
Watts Bar Reservoir	1/8	TWRA	16	2	18
		TOTAL	34	10	44
		STATE TOTAL	172	82	254

FWS = Fish and Wildlife Service
TWRA = Tennessee Wildlife Resources Agency
TVA = Tennessee Valley Authority
COE = Corps of Engineers
TOS = Tennessee Ornithological Society

Accepted 5 June 1993

WESTERN COASTAL PLAIN REGION — The Western region experienced a mild winter with above average rainfall. Unusual winter visitors included Oldsquaw, Golden Eagle, Peregrine Falcon, Pectoral Sandpiper, Common Ground-Dove, Barn Swallow, Common Yellowthroat and a Lark Sparrow. Field work for the Winter Roadside Raptor Survey (WRRS) accounted for the number of raptors reported this season. The Red-tailed Hawk observations were not included in this report. Purple Finch, Goldfinch and Pine Siskin were not reported at feeders or in field reports; however, many feeders hosted House Finch.

Loon-Merganser: Common Loon: 22 Dec (45) Henry Co. (RDH, DoM); 22 Dec (1) CBC, Rlft L, Lake Co. (MAG, BLG, JCG). Pied-billed Grebe: 5 Dec-EOP (10 max) Lake Co. (WGC). Horned Grebe: 22 Dec (58) Henry Co. (RDH, DoM);16 Jan-EOP (9 max) Lake Co. (WGC). Double-crested Cormorant: 1 Dec-EOP (65 max) Rlft L, Obion Co. (WGC). Greater White-fronted Goose: 9 Jan (3) Lauderdale WMA, Lauderdale Co. (JRW, BLG); 3 Jan-14 Feb (230 max) Rlft L, Lake Co. (WGC), high count was 26 Jan. Snow Goose: 17 Jan-EOP (25,000) Rlft L, Lake Co., 31 Jan-28 Feb (30,000 max) Long Point, Rlft L NWR, Kentucky (WGC). Ruddy Duck: 22 Dec (4000) Rlft L, Lake/Obion Cos. (MAG, BLG, JCG). Oldsquaw: 21 Dec-EOP (1) TEC (MLG, DoM, GRP, JBP, VBR, Dick Whittington, JEW, MGW). Red-breasted Merganser: 4/27 Feb (86 max) Rlft L, Lake Co. (WGC).

Raptors: Bald Eagle: 17 Jan (on nest) Lake Isom, Lake Co. (WGC). Sharp-shinned Hawk: 21 Dec (2) Memphis CBC (MTOS); 15 Jan (1) Shelby Farms (MLG); 29 Jan (1) Memphis (MGW); 21 Feb (1) Shelby Farms (SNM, MGW); 28 Feb (1) Germantown (MLG). Cooper's Hawk: 3 Jan (1) Memphis Zoo (OKM); 16 Jan (1) Chickasaw NWR (MTOS); 21 Jan (1) Memphis (MGW); 31 Jan/17 Feb (1) E Memphis (JBP, GRP); 16 Feb (1) E Memphis (CHB, Fred Carney); 20 Feb (1) Germantown, 21 Feb (1) Shelby Farms (MLG); 22 Feb (1) Gibson Co. (MAG). Red-shouldered Hawk: 21 Dec (1) Memphis CBC (MTOS); 22 Dec (1) Henry Co. (RDH, DoM); 2 Jan (3) Jackson CBC, Madison Co. (BLG, MAG, JRW, GMG); 10 Jan (1) Lake Co. (GRP, JBP, Bob Feutsch, Joel Simpson); 16 Jan (3) Chickasaw NWR (MTOS); 23 Jan (2) Sunk L (MGW, VBR, DoM, CHB); 27 Jan (2) Obion Co. (HBD, BHW, SLL, CHB, VBR); 3 Feb (3) Rlft L, Obion Co. (VBR, Susan Reynolds); 3 Feb (3) WRRS, W Hardeman Co. (CHB, HBD, SLL); 23/27 Feb (1/1) Rlft L, Lake Co. (WGC); 28 Feb (3) Germantown (MLG). Rough-legged Hawk: 2 Jan (1) Jackson CBC, Madison Co. (BLG, GMG, MAG, JRW). GOLDEN EAGLE: 26 Jan (1 sub-adult) Air Park Inn, Rlft L, Lake Co. (WGC). PEREGRINE FALCON: 2 Dec-EOP (1) Memphis (OKM).

Yellowlegs-Gull: Greater Yellowlegs: 21 Dec (1) Memphis CBC (MTOS); 14 Feb (1) Long Point (WGC), early date. Lesser Yellowlegs: 14 Feb (1) Long Point (WGC), early date. Western Sandpiper: 1 Dec (1) Hwy 103 and Great River Rd, Dyer Co. (WGC). Least Sandpiper: 6 Dec-EOP (5 max) Shelby Farms (MLG); 21 Dec (6) Memphis CBC (MTOS); 24 Jan (5) TEC (DoM, VBR, MGW). PECTORAL SANDPIPER: 18/24 Jan (1) TEC (MLG, VBR, DoM, MGW). Dunlin: 6 Dec (1) Shelby Farms (MLG); 18 Dec (2) TEC (MLG). American Woodcock: 2-14 Feb (max 3 males heard) Iris Hill Farm, E Shelby Co., 20-21 Feb (3 males heard, 2 seen) E Shelby Co., 22 Feb (2 males heard, one seen) third E Shelby Co. site (James and Sue Ferguson); 9/21 Feb (1/1) Mt. Orange/Trenton, Gibson Co. (MAG). Bonaparte's Gull: 1 Dec-5 Dec (52 max) Rlft L, 5 Dec (10) Ridgely, Lake Co. (WGC); 6 Dec/15 Feb (1) Shelby Farms (MGW/MLG); (1) Shelby

Farms; 21 Dec (1) Memphis CBC (MTOS); 22 Dec (13) Paris Ldg S P (DoM, RDH); 22 Dec (17) CBC, Rlft L, Lake Co. (JCG, MAG, BLG); 3 Jan (41) Spillway, Rlft L, Lake Co. (WGC). Ring-billed Gull: 5 Dec-12 Jan (650 max) Rlft L, Lake Co. (WGC); 21 Dec (64) Memphis CBC (MTOS); 22 Dec (70) Paris Ldg S P (DoM, RDH); 22 Dec (725) CBC, Rlft L, Lake/Obion Cos. (MAG, BLG, JCG); 10 Jan (66) Lake Co. (GRP, JBP, Bob Feutsch, Joel Simpson); 10 Feb (26 max) Gibson Co. (MAG); 26 Feb (150+) Shelby Farms (MGW); 28 Feb (225) TEC (MGW, VBR). Herring Gull: 22 Dec (8) Paris Ldg S P (RDH, DoM); 22 Dec (6) Rlft L CBC, Lake Co. (JCG, BLG, JCG).

Dove-Waxwing: COMMON GROUND-DOVE: 16 Jan (2) Lauderdale Co. (MGW, VBR, Kate Freidman); 4 Feb (2) TEC (CHB, JRW), this must be the year of the ground-dove, three were seen on the Arkabutla (Mississippi) CBC 27 Dec (GRP, JBP) and one was observed three-quarter mile SW at a fish hatchery 24 Feb (VBR, CHB, HBD, BHW). Swallow sp.: 23 Feb (2) Kirby Pocket, Rlft L (WGC). BARN SWALLOW: 13 Jan (1) Paris Ldg S P (Terry J. Witt). Fish Crow: 23 Jan (2) Sunk L, Lauderdale Co. (CHB, DoM VBR, MGW). Winter Wren: 23 Jan (3) Lauderdale Co. (MGW, VBR, CHB, DoM); 3 Feb (4) Rlft L, Obion Co. (VBR, Susan Reynolds); 10 Feb (1) Shelby Farms (MGW). House Wren: 25 Dec/3 Jan (1) Shelby Farms (MGW/MLG). Cedar Waxwing: 26 Feb (500+) Germantown (MLG); 28 Feb (800+) Memphis (MGW).

Shrike-Siskin: Loggerhead Shrike: 2 Dec (9) WRRS, N Shelby Co. (CHB, HBD, SLL, BHW, VBR); 21 Dec (14) Memphis CBC (MTOS); 22 Dec/20 Feb (4 max) WRRS, S Shelby Co. (Gaynell Perry); 22 Dec (5) CBC, Rlft L, Lake Co. (MAG, JCG, BLG); 30 Dec (8) WRRS, Hardeman Co. (VBR, HBD); 2 Jan (2) Jackson CBC, Madison Co. (BLG, JRW, GMG, MAG); 9 Jan (4) WRRS, Haywood Co. (William Fowler); 17 Feb (4) WRRS, N Shelby Co. (VBR, BHW). Pine Warbler: 3 Jan (3-5) E Shelby Co. (MLG). Common Yellowthroat: 18 Jan (1) TEC (MLG). Western Meadowlark: 7 Feb (4-5) TEC (MGW, JEW). American Tree Sparrow: 22 Dec (2) CBC, Rlft L, Obion Co. (MAG, JCG, BLG); 2 Jan (2) Jackson CBC, Madison Co. (BLG, JRW, GMG, MAG). Vesper Sparrow: 18 Feb (2) Shelby Farms (MLG). LARK SPARROW: 21 Dec (1) Memphis CBC (SNM, Mac McWhirter). Lincoln's Sparrow: 18 Feb (1) Shelby Farms (MLG). Rusty Blackbird: 21 Dec (200) Memphis CBC (MTOS); 25 Dec (150) Shelby Farms (MGW); 18 Jan (200+) TEC (MLG); 24 Jan (18) TEC (MGW, DoM, VBR, CHB); 28 Feb (50+) TEC (VBR, MGW). Brewer's Blackbird: 24 Dec/18 Feb (1/2) Shelby Farms (MLG); 18 Jan (15) TEC (MLG). Pine Siskin: 22 Dec (2) CBC, Rlft L, Obion Co. (JCG, MAG, BLG).

Locations: Chickasaw NWR-Chickasaw National Wildlife Refuge, Lauderdale Co.; Germantown-Germantown, Shelby Co.; Paris Ldg S P-Paris Landing State Park, Henry Co.; Shelby Farms-Shelby Farms was Penal Farm, Memphis, Shelby Co.; Sunk L-Sunk Lake, Lauderdale Co.; TEC-The EARTH COMPLEX was Ensley Bottoms, Shelby Co.

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HIGHLAND RIM AND BASIN REGION — Winter rainfall in Nashville was below average. The deficiency was 1.7 inches in Dec. and about half-an-inch in Jan. and Feb. Temperatures varied from normal in Dec. to 5° F above normal in Jan. and 1° F below normal in Feb. The outstanding bird sightings of the period were the

Western Tanager, which attended a feeder in Franklin for most of the period, and the Rufous Hummingbird, reported in Nov. in Manchester which remained until Dec. The Eared Grebe on Percy Priest Lake is one of only a few winter records for this species. Other unusual sightings were the Blue-gray Gnatcatcher, one of few winter records, and the Scarlet Tanager, evidently the first December record for Tennessee. Irruptive species were scarce.

Grebe-Falcon: Eared Grebe: 10 Feb (1) Anderson Recreation Area, Percy-Priest Lake, Dav. Co. (*Terry J. Witt). Great Egret: 26 Dec (1) Columbia CBC. Greater White-fronted Goose: 14 Jan (2) Woods Res, (fide Mark C. Kelly), taken by hunters. Snow Goose: 9-10 Jan (1) Madison, Dav. Co. (Lee Kramer); 13 Feb (3) Woods Res (DLD). Canvasback: 15 Dec (75) Rad L (MLM), max. Osprey: 21 Dec (1) Pen Bend (MLM), only report. Bald Eagle: 9 Jan (2 ad, 1 im) Gainsboro, Jackson Co. (*CS, Reed Cripps); also 3 reports 30 Dec , 6 & 8 Jan from Coffee & Franklin Cos. of adult eagles. Cooper's Hawk: 9 Dec to 21 Feb (im) Nashville (PGL), observed 4 times at intervals of several weeks perched on trees in city lot, observed eating a Mourning Dove on 21 Feb. Golden Eagle: 27 Feb (1) Cannon Co. near Shiloh Baptist Church (Upper Cumberland Chapter TOS, fide CS). Merlin: 15 Dec (1) Summertown, Lawrence Co., (fide Vicky Carder), injured bird. Peregrine Falcon: early Dec to 25 Jan (1) Nashville (Cleo Hughes).

Rail-Waxwing: Virginia Rail: 26 Dec (1) Columbia CBC. Sora: 26 Dec (3) Columbia CBC. Sandhill Crane: 3 Dec (150), 6 Dec (70) all in flight, Macedonia, Putnam Co. (*RWS); 8 Feb (100 in flight) Monterey, Putnam Co. (*CS); 27 Feb (4) Woods Res (DLD). Least Sandpiper: 2 Jan (17) Tims Ford L (DLD). American Woodcock: 8 Feb (3) Warner Parks, Dav. Co. (PGL), courtship flights observed. Barn Owl: 12 Feb (2) Mason Grissom Rd, Warren Co. (*SNM). Long-eared Owl: 14 Jan (1 ad) found dead near Mill Creek, Dav Co (fide Michael Bierly). Common Nighthawk: 1 Dec (1) Nashville (PGL), very late. RUFOUS HUMMINGBIRD: Nov to 13 Dec (1 ad m, photo) Manchester, Coffee Co. (DLD). Red-breasted Nuthatch: 2 Jan (1) Woods Res. (DLD); 6 Feb (1) UT Tree Farm, Franklin Co. (DLD). Blue-gray Gnatcatcher: 19 Dec (1) Brentwood, Williamson Co. (Chris Sloan, Hazel Cassel and *FJM); 19 Dec (1) Woods Res (DLD). American Pipit: 2 Jan (1) Tims Ford L (DLD); 13 Feb (7) Woods Res (DLD). Cedar Waxwing: 27 Feb (200) Pen Bend (MLM), max.

Warbler-Grosbeak: Pine Warbler: 8 to 28 Jan (1) at feeder, Hendersonville, Sumner Co. (Dick & Grace Newton). Palm Warbler: 19 Dec (1) Poplar Creek Rd, Dav. Co. (Ann Tarbell). Scarlet Tanager: 19-22 Dec (1 f) Goodlettsville, Dav. Co. (Judy & Pete McKee, Martha Patterson, *FJM et al.). WESTERN TANAGER: 7 Dec to EOP (1 ad m, winter plumage) Franklin, Williamson Co. (*Jane Trabue, m.ob.). Vesper Sparrow: 2 Jan (1) AEDC Airport (DLD), only report. Rusty Blackbird: 14 Feb (35) Cheatham Co. (PGL), max. Purple Finch: 15 Feb (9), 25 Feb (13) Macedonia, Putnam Co. (RWS). Pine Siskin: no reports submitted. Evening Grosbeak: 27 Feb (2) Manchester, Coffee Co. (Annie R. Norvell), only report.

Locations: AEDC-Arnold Engineering Development Center, Franklin Co.; Dav. Co.-Davidson Co.; Pen Bend-Pennington Bend, Davidson Co.; Rad L-Radnor Lake State Natural Area, Davidson Co.; Tims Ford L-Tims Ford Lake, Franklin Co.; Woods Res-Woods Reservoir, Franklin Co.

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CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION — This was a very mild winter, with near normal precipitation. December and February had a few minor cold snaps, but there was no prolonged cold. January was especially mild. At Johnson City, three December snowfalls totaled 4.5 inches and three in February amounted to just 1.5 inches. That is more than some recent winters, but below long-term averages there.

It appeared to be a rather dull season, except for some good waterbirds in the Chattanooga area. Ducks were "scarcer than usual" in the Johnson City area. Boreal irruptives were absent. Frugivores (robins and waxwings) were notably scarce in the Johnson City area; and, although wild fruits were somewhat scarce there, some fruit remained until season's end. Fewer birds showed up at feeders. Many casual feeder-watchers asked, "Where are all the birds?" On a brighter note, shrikes and kestrels seemed to be slightly more numerous in the northeastern part of the region. A few "half-hardy lingerers" remained.

The number of reports were low this season. What does that mean? Did the mild weather result in bland birding? Are observers getting lazy and just covering the easily accessible lakes? Are we all reporting our observations?

Loon-Heron: Red-throated Loon: 30 Dec-17 Jan (1) Chick L (JAK, m.ob). Common Loon: regular, max 19, Chick L (KHD, LHD); 5 Dec (1) Boone L (RLK), only report there; 30 Jan (8) Tellico L, Monroe Co. (JAK). Horned Grebe: 5 Dec (25) Boone L (RLK), only report there. Double-crested Cormorant: 5 Jan (1) Boone L (RLK); 5 wintered at Kingsport (RLK). Green Heron: 30 Dec (1) Chick L (JAK). Black-crowned Night-Heron: 10+ wintered at Kingsport (RLK). Yellow-crowned Night-Heron: 11 Jan (1 ad) Jonesborough, Wash. Co. (JWB).

Waterfowl: Tundra Swan: 8 Feb (1) Hiwas R (TWRA). Greater White-fronted Goose: 8 Dec/27 Feb (1/7) Hiwas R (TWRA/LHD, David Vogt, m.ob.). Snow Goose: late Nov-late Dec (1) Warrior's Path S P, Sullivan Co. (fide RLK); 8 Dec-27 Feb (1-200) Hiwas R (TWRA, LHD, m.ob.), high number for region; 10 Dec (1) Alcoa, Blount Co. (JAK); 23 Jan (1) Savannah Bay, Hamilton Co. (RJH). Canada Goose: 15 Jan (1934) Hiwas R (TWRA), max. American Black Duck: 15 Jan (1937) Hiwas R (TWRA), max. Mallard: 15 Jan (4573) Hiwas R (TWRA), max. Northern Pintail: 16 Jan (40) Hiwas R (LHD), max. Gadwall: 23 Feb (345) Hiwas R (TWRA), max. American Wigeon: 6/23 Feb (18) pond in Jeff. Co./Hiwas R (JAK/TWRA), max. Canvasback: 2 Jan (35) Nickajack L, Marion Co. (RJH). Redhead: 16 Feb (80) Chick L (RJH), max. Ring-necked Duck: 15 Jan (354) Hiwas R (TWRA), max. Greater Scaup: 8 Feb (175) Chick L (KHD), max. Common Goldeneye: 9-17 Jan (10-25) Chick L (RJH), max. Hooded Merganser: 16 Jan (75) Hiwas R (KHD, LHD); 6 Feb (80) pond in Jeff. Co. (JAK); 7 Feb (74) Middlebrook L, Bristol (JWC), max. Common Merganser: 19 Dec (1 f) Boone L on Kingsport CBC (RLK), only report. Ruddy Duck: 2 Jan (125) Nickajack L, Marion Co. (RJH), max.

Eagle-Tern: Bald Eagle: 25 Dec (2 ad) Cherokee L, Hamblen/Hawkins Co. portion (Stan Strickland); 1 Feb (1 ad) Boone L (JWN). American Kestrel: seemed to be in above average numbers for recent years in the Johnson City area (m.ob.). Peregrine Falcon: 14 Feb (1 im) Boone L (RLK). Killdeer: 14 Jan (90) Lst (RLK, DEH), max. Least Sandpiper: 14 Jan (1) Lst (RLK, DEH), second Jan. record in Johnson City area; no

word on Chatttanooga area wintering sites. American Woodcock: 1 Jan (1) Haws Crossroads, Wash. Co. (Stan Strickland); 13 Feb (1) Austin Springs, Wash. Co. (JWB); 27 Feb (2) Amnicola Marsh, Hamilton Co. (RJH). Bonaparte's Gull: 9 Jan (600) Chick L (RJH), max. Ring-billed Gull: 9 Jan (about 3000) Chick L (RJH), max. Herring Gull: 9 Jan (20) Chick L (RJH), max. ICELAND GULL: 19 Dec-1 Jan, 11 Jan (1) Chick L (Daniel Jacobson, RJH, m.ob.). LESSER BLACK-BACKED GULL: 27 Feb into March (1 ad) Nickajack L, Marion Co. (RJH, m.ob.). Caspian Tern: 22 Jan (1) Chick L (PGL), second winter record in state.

Passerines: Horned Lark: 4 Jan (29) Lst (RLK); 30 Jan (3) Marion Co. (RJH); none found in parts of Greene and Jeff. Cos. where previously occurred (JAK). Red-breasted Nuthatch: 6 Dec (1) Wash Co. (RLK), only report. House Wren: 22 Jan (1) Hawkins Co. (RLK). American Robin: very few in the Johnson City area, after being numerous last winter. Brown Thrasher: only one Johnson City area report (JWN). Cedar Waxwing: none in the Johnson City area from the CBC period until late spring, a most unusual occurrence (m.ob.); no mention by other reporting stations. Loggerhead Shrike: above average numbers in Johnson City area, 10 on Wash. Co. WRRS route in Dec & Jan (RLK, DEH). Palm Warbler: 9 & 30 Jan (1) Johnson City (RLK); 16 Jan (3) Hiwas R (KHD); 6 Feb (2) Jeff. Co. (JAK); 25 Feb (1) Blount Co. (JAK). Chipping Sparrow: 5 Feb (1) Johnson City (JWN). Vesper Sparrow: 21 Feb (4) Wash. Co. (RLK, DEH). Savannah Sparrow: about 30 all season on farm in Jeff. Co. (JAK). White-crowned Sparrow: 26 Dec (120) McDonald, Greene Co. (JAK), max. Brewer's Blackbird: 6 Dec (2, m & f) Lst (RLK). Purple Finch: very scarce in Johnson City area, mild influx to feeders in late Feb (m.ob.). Pine Siskin & Evening Grosbeak: no reports.

Locations: Boone L-Boone Lake, Sullivan & Washington Cos.; Chick L-Chickamauga Lake, Hamilton Co. portion; Hiwas R-Hiwassee River Area, primarily Meigs Co., but also Bradley, McMinn, & Rhea Cos.; Jeff. Co.-Jefferson Co.; Lst-Limestone, Washington Co.; Wash. Co.-Washington Co.

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EASTERN MOUNTAIN REGION — Precipitation was above normal for December and about normal for the rest of the period. Roan Mountain received 18 inches of snow on 11 December.

Birding during this period was considered dull by most observers. Ducks were scarce in places where they are normally common, like Wilbur and Watauga Lakes. There was no cone crop on Roan Mountain this winter. Thus, there were no nuthatches, grosbeaks, finches, crossbills or siskin there either. Brown Creepers, both kinglets, Winter Wrens, and Hermit Thrushes were in above average numbers. The Northern Bobwhite was virtually absent from northeast Tennessee and southwest Virginia Christmas counts. We need to keep a closer eye on populations of that species.

Loon-Gull: Common Loon: 13 Jan/22 Feb (3) Wat L (RLK); 7 Feb (1) S Hol L (JWB). American Black Duck: only 2-3 reports of 1-2 birds on Wilbur L. Gadwall: 8/30 Jan (2) Erwin, Unicoi Co. (FJA, JWN). Ring-necked Duck: max of 24 on Wilbur L. Lesser Scaup: 26 Dec (93) S Hol L (RPL, JWC, et al.), max. Bufflehead: 20 Dec (145) Wilbur

L (LHTOS), max. Hooded Merganser: 6 Feb (1) Watauga River, Carter Co. (JWB); 22 Feb (1) Wat L (RLK). Bald Eagle: 30 Jan (2 ad) Wat L (Rusty Dunn), possibly overwintered. Peregrine Falcon: 19 Dec (1) Eliz. (Gary Wallace). Wild Turkey: 26 Dec (2) S Hol L (JWC, et al.). Northern Bobwhite: lacking on most area CBCs. Bonaparte's Gull: 26 Dec (3) S Hol L (JWC et al.). Ring-billed Gull: 26 Dec (534) Bristol CBC (RPL, JWC, RLK), max.; 31 Dec (40)/22 Feb (14) Wat L (RLK).

Phoebe-Grosbeak: Eastern Phoebe: 26 Dec (8) Bristol CBC (RPL, JWC, RLK), max., slightly above normal numbers. Horned Lark: 26 Dec (26) S Hol R (RLK). Red-breasted Nuthatch: 19 Feb (3) Unaka Mountain, Unicoi Co. (RM), only report. House Wren: 20 Dec (1) Eliz. CBC (Brian Cross, Glenn Swofford, Shirley & Jim Wayland). American Robin: very scarce all season. American Pipit: 26 Dec (12) S Hol R (RLK). Cedar Waxwing: low numbers, none after 20 Dec. Palm Warbler: 6 Feb (2) Eliz. (JWB). Northern Cardinal: 18 Dec (1 m at 4450 ft elev) Roan Mt CBC (RLK). Chipping Sparrow: 13 Dec (1) Hampton, Carter Co. (Tom McNeil). Swamp Sparrow: 26 Dec (7) S Hol L (JWC et al.). Purple Finch: 18 Dec (4) Roan Mt CBC, 1-2 feeder reports, only reports. Red Crossbill: 18 Dec (1) Ripshin Lake, Carter Co. (FJA), only report. Pine Siskin: 2 reports of 2 birds (Jan & Feb) at Milligan, Carter Co. (RM, FJA). Evening Grosbeak: no reports.

Locations: Eliz.-Elizabethton, Carter Co; Roan Mt.-Roan Mountain, Carter Co.; S Hol L-South Holston Lake, Sullivan Co.; S Hol R-South Holston River, Sullivan Co.; Wat L-Watauga Lake, Carter and/or Johnson Cos.; Wilbur L-Wilbur Lake, Carter Co.

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OBSERVERS

FJA - Fred J. Alsop
JWB - James W. Brooks
CHB - Carolyn H. Bullock
JWC - J. Wallace Coffey
WGC - William G. Criswell
DLD - Don. L. Davidson
HBD - Helen B. Dikelspiel
KHD - Kenneth H. Dubke
LHD - Lillian H. Dubke
BLG - Bethany L. Greene
GMG - Gail M. Greene
JCG - J. Christopher Greene
MAG - Mark A. Greene
MLG - Murray L. Gardler
DEH - Dan E. Huffine
RDH - Ron D. Hoff
RJH - R. John Henderson
JAK - Jon A. Koella
RLK - Richard L. Knight
PGL - P. Galen Lenhert
RPL - Richard P. Lewis
SLL - Selma L. Lewis
OKM - O. Knox Martin
RM - Rad Mayfield
SNM - Susan N. McWhirter
DoM - Dollyann Myers
FJM - F. Joseph McLaughlin
MLM - Margaret L. Mann
JWN - Jerry W. Nagel
GRP - George R. Payne
JBP - Jeanne B. Payne
VBR - Virginia B. Reynolds
CS - Candy Swan
RWS - Richard W. Simmers, Jr.
BHW - Barbara H. Wilson
JEW - James E. Waldron
JRW - Jeff R. Wilson
MGW - Martha G. Waldron
LHTOS - Lee Herndon Chapter of TOS
MTOS - Memphis Chaper of TOS
TWRA - Tennessee Wildlife Resources Agency

INSTRUCTIONS TO AUTHORS

The Migrant records observations and studies of birds in Tennessee and adjacent areas. Most articles are written by members of the Tennessee Ornithological Society.

SUBMISSIONS: The original and, if feasible, two copies of the manuscript should be sent to the Editor: J. Wallace Coffey, 100 Bellebrook Dr., Bristol, TN 37620. Manuscripts that have been published in other journals should not be submitted.

MATERIAL: The subject matter should relate to some phase of Tennessee ornithology. It should be original, factual, concise, and scientifically accurate.

STYLE: Both articles and short notes are solicited; recent issues of *The Migrant* should be used as a guide in the preparation of manuscripts. Where more detail is needed, reference should be made to the *CBE Style Manual*; this book is available at many public libraries and from the Council of Biology Editors, Inc., 111 East Wacker Drive, Suite 3200, Chicago, IL 60601-4298.

COPY: Manuscripts should be typed *double spaced* on 8.5 x 11" paper with adequate margins for editorial notations. Tables should be prepared on separate sheets with appropriate title and column headings. Photographs intended for reproduction should be sharp with good contrast on glossy white paper; black and white photographs will usually reproduce better than color photographs. Weights, measurements, and distances should be in metric units. Dates should be in "continental" form (e.g., 16 March 1992). Use the 24-hour clock (e.g., 0500 or 1900).

NOMENCLATURE: The scientific name of a species should be given after the first use of the full common name in the text. The scientific name should be underlined and in parentheses. Names should follow the A.O.U. Check-list of North American Birds (sixth edition, 1983, or supplements).

TITLE: The title should be concise, specific, and descriptive.

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LITERATURE CITED: List all literature citations in a Literature Cited section at the end of the text. Text citations should include the author and year.

IDENTIFICATION: Manuscripts including reports of rare or unusual species or of species at atypical times should be submitted to the TOS Bird Records Committee. Verifying evidence should include: date, time, light and weather conditions, exact location, habitat, optical equipment, distance, behavior of bird, comparison with other similar species, characteristic markings, experience of observer, other observers verifying the identification, and reference works consulted.

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NOTICE TO RESEARCHERS

Several references in this issue include dates later than the cover date of June 1993. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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